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IX
EXPEDITION OF THE CALIFORNIA ACADEMY
OF SCIENCES TO THE GULF OF
CALIFORNIA IN 1921¹

THE GEOMETRID MOTHS

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1. *Cosymbia serrulata* Packard

San Marcos Island, June 21, one specimen. Collected by E. P. Van Duzee as were all the specimens recorded in this paper.

2. *Ptychopoda* sp.

Angeles Bay, Lower California, June 25, five specimens.

3. *Chlorochlamys* sp.

Angeles Bay, Lower California, two examples. These specimens were badly worn and discolored so the specific characters are practically obliterated. They are both females and it is only by the length of the palpi that I am able to indicate the genus.

4. *Barnesia ritaria* Grossbeck

Angeles Bay, June 25, seven males, one female.

¹A map showing the islands, etc., visited by this Expedition will be found in Vol. XII, No. 6, of these Proceedings. Copies of which can be supplied at nominal cost.

5. *Perizoma polygrammata* Hulst ?

Angeles Bay, June 25, 27, four specimens. *Perizoma custodiata*, *polygrammata* and *carnata*, as identified by the late John A. Grossbeck, all fly at the same time and in the same locality. In my own collection they intergrade to such an extent that it is difficult to disassociate them. I am not sure that I know either species definitely. These four specimens agree best with what I have in my own collection under the name *polygrammata* Hulst, identified for me by Mr. Grossbeck himself. *Perizoma epictata* Barnes & McDonough, evidently belongs to this same group and though I have collected it in San Diego, California, for many years, I am not sure that I have the species. The Angeles Bay specimens belong to one of the four species and appear to be *polygrammata*, hence the reference.

6. *Glaucina puellaria* Dyar

Agua Grande, Carmen Island, June 15, one specimen.

7. *Glaucina eupetheciaria* Grote

Angeles Bay, June 25, three specimens.

8. *Glaucina abdominalis* Grossbeck ?

Angeles Bay, May 4, June 25, one male, four females. These specimens appear to be *abdominalis* but may prove to be a new species. The only male in the group is too badly worn to make sure identification possible.

9. *Fernaldella fimetaria angelata* Wright, forma nova.

Four specimens form this group, two from Guaymas, Sonora, and two from Angeles Bay, Lower California. When compared with specimens of *fimetaria* they are somewhat larger and the light markings above the costal area of the primaries are broader and the darkened area is less contrasting than in *fimetaria*. On the secondaries the silvered areas are larger and show less tendency to break up into spots. On both wings the marginal row of silvered spots are dart-like

in form and extend clear to the outer edge of the fringes, being much longer and narrower than in *finetaria*.

Type: Male, No. 973, Mus. Calif. Acad. Sci., collected by E. P. Van Duzee, June 30, 1921, at **Angeles Bay, Lower California.**

Allotype: Female, No. 974, Mus. Calif. Acad. Sci., collected by E. P. Van Duzee, April 7, at Guaymas.

Paratypes: One male from Guaymas and one male from Angeles Bay, June 25.

10. *Phasiane colorata* Grote

Angeles Bay, June 25, two specimens.

11. *Phasiane s-signata ballandrata* Wright, forma nova.

This form differs from the parent species in the intensity of the color and the course of the cross lines. In *s-signata* the lines are narrow, the inner line often reduced to a mere suggestion, while in *ballandrata* the line is heavy and very broad, curving distinctly outwards in the median portion, no attending shades. The outer line in *ballandrata* is broader and more contrasting, also the curves are more pronounced and the general course of the line is more oblique than in *s-signata*. In all other particulars the specimens agree with Packard's species.

Type: Male, No. 975, Mus. Calif. Acad. Sci., collected by E. P. Van Duzee, May 20, 1921, at **Loreto, Lower California.**

Allotype: Female, No. 976, Mus. Calif. Acad. Sci., collected by E. P. Van Duzee, May 21, 1921, at Puerto Ballandra, Carmen Island.

Paratype: Female, Loreto, May 20.